## 10 Rec'd POTATE

## **PCT**

For receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application	on"

REQUEST				
	International Filing Date	te		
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT International Application"		
	Applicant's or agent's (if desired) (12 characte	file reference ers maximum)		
Box No. I TITLE OF INVENTION				
FIBER GRATINGS AND METHOD FOR	FABRICATING	FIBER GRATINGS		
	n is also inventor			
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence		Telephone No. 044 (850) 9757		
Japan Science and Technology Co	rporation	Facsimile No. 044 (819) 2205		
4-1-8, Honcho, Kawaguchi-shi, S 332-0012 Japan	aitama	Teleprinter No.		
·		Applicant's registration No. with the Office		
State (that is, country) of nationality:  Japan	State (that is, country)	of residence: Japan		
This person is applicant for the purposes of:  all designated the United States  all designated the United States	d States except tates of America	the United States the States indicated in the Supplemental Box		
Box No. III FURTHER APPLICANT(S) AND/OR (FURT)	HER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal ent. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. Showa Electric Wire & Cable Co.	he address indicated in this ce is indicated below.)	This person is:		
1-1, Odasakae 2-chome, Kawasaki Kawasaki-shi, Kanagawa 210-0843	-ku,	inventor only (If this check-box is marked, do not fill in below.)		
nawasani biri, kanagawa 210-0045	Japan .	Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)			
Japan This person is applicant.	<u></u>	Japan		
	tates of America	the United States of America only the Supplemental Box		
Further applicants and/or (further) inventors are indicated of	n a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	as:	agent common representative		
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of co	ty, full official designation. puntry.)	Telephone No. 03 (3242) 7281		
(7758) Patent Attorney Moriya Kazuo Facsimile No. 03(3245)0537				
Moriya and Company, Lots Wako B	ldg.,	Teleprinter No.		
1-13, Nihonbashi-Honcho 3-chome Chuo-ku, Tokyo 103-0023 Japan	•			
, a second supul	·	Agent's registration No. with the Office		
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	no agent or common rep which correspondence sl	resentative is/has been appointed and the		

Sheet No. ...2...

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should no	t be included in the request.				
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  This person is:  applicant only					
Hosono Hideo	applicant only  applicant and inventor				
2786-4-212, Shimotsuruma, Yamato Kanagawa 242-0001 Japan	inventor only (If this check-box is marked, do not fill in below.)				
	Applicant's registration No. with the Office				
State (that is, country) of nationality: Japan	State (that is, country) of residence:  Japan				
This person is applicant for the purposes of:  all designated the United States all designated the United States	States except the United States the States indicated in the sof America only the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence Hirano Masahiro	and dress indicated in this is indicated below.) applicant only				
5-5-6, Matsubara, Setagaya-ku, T 156-0043 Japan					
	Applicant's registration No. with the Office				
State (that is, country) of nationality:  Japan	State (that is, country) of residence:  Japan				
This person is applicant for the purposes of:  all designated the United States all designated the United States	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence Kawamura Kenichi  3-8-2, Higashirinkan, Sagamihara Kanagawa 228-0811 Japan	address indicated in this is indicated below.)  applicant only  applicant and inventor				
State (that is, country) of nationality:  Japan	State (that is, country) of residence:  Japan				
This person is applicant for the purposes of:  all designated states all designated the United States					
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	address indicated in this				
Oto Masanori	applicant and inventor				
c/o Showa Electric Wire & Cable 1-1, Odasakae 2-chome, Kawasaki- Kawasaki-shi, Kanagawa 210-0843	ku.				
State (that is, country) of nationality:  Japan	State (that is, country) of residence:  Japan				
This person is applicant all designated all designated	This person is applicant all designated all designated States except the United States to the States indicated in				
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

Sheet No. ..3...

Box No.	V DESIGNATION OF STATES	3	Mark the applicable check-boxes below	w; at	leas	st one must be marked.
The follo	owing designations are hereby made					• •
	al Patent	under	Rule 4.9(a):			
_	AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line).					
L EA	Eurasian Patent: AM Armenia. A	Z Aze	rbaijan, BY Belanis, KC Kyrovzeton	W7 1	V	olehatan MCD D 111 Charte
	atom Convention and of the FC1		M Turkmenistan, and any other State			•.
	EP European Patent: AT Austria, BE Belgium, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT					
□ OA	OAPI Patent: BF Burkina Faso, I	BJ Ber	nin, CF Central African Republic CO	⊋ Coı	200	CI Côte d'Ivoire CM Comerces
	TD Chad, TG Togo, and any other	toriai e State v	Guinea, GW Guinea-Bissau, ML Ma which is a member State of OAPI and on dotted line)	ıli, M a Co	R N ntra	Mauritania, NE Niger, SN Senegal,
					• • •	•••••••••••••••••••••••
DAEL	In talent (if other kind of protection Inited Arab Emirates	Or tre	eatment desired, specify on dotted line): M Gambia			
			M Gambia R Croatia	님	NZ	New Zealand
D AL	Albania		U Hungary	H	OM	I Oman
□ AT A	Austria		Israel	П	DT	Poland
□ AU A	Australia		N India	Η	P.L	Portugal
	Azerbaijan	$\square$ is	S Iceland		NO DII	Russian Federation
□ ва в	Bosnia and Herzegovina	1 JE	P Japan	_	ΝU	Russian rederation
L BB B	Barbados	Πк	E Kenva	$\Box$	eD.	Sudan
□ BG B	Bulgaria	$\square$ K	G Kyrgyzstan		SE.	Sweden
□ BR F	Brazil	□к	P Democratic People's Republic		eC op	Singapore
□ BY F	Belarus		of Korea	Π	90 91	Singapore
🗆 BZ B	Belize	Пκ	R Republic of Korea	$\Box$	SK SK	Slovakia
LI CA C	Canada	LJ K	Z Kazakhstan		ST.	Sierra Leone
	LI Switzerland and Liechtenstein	$\sqcup L$	C Saint Lucia	$\bar{\Box}$	T.J	Tajikistan
	China			$\overline{\Box}$	TM	Turkmenistan
	Colombia		R Liberia		TN	Tunisia
	Sosta Rica		S Lesotho			Turkey
LI CU C	Cuba		T Lithuania		тт	Trinidad and Tobago
$\square$ cz c	Czech Republic		U Luxembourg		_	
DE G	Germany	□ r	V Latvia		TZ	United Republic of Tanzania
	Denmark	□м	A Morocco		UA	Ukraine
	Dominica	□м	D Republic of Moldova		UG	Uganda
	Algeria				US	United States of America
	Ccuador	□м	G Madagascar			
L EE E	stonia	□м	K The former Yugoslav Republic of		UZ	Uzbekistan
LJ ES S	pain		Macedonia		VN	Viet Nam
	inland				YU	Yugoslavia
			WMalawi		ZA	South Africa
	Grenada		X Mexico			
	Georgia		Z Mozambique		ZW	Zimbabwe
L Gn o	nana	וא נו	O Norway	-		
Check-bo	Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:					
<b></b>		□	••••••			***************************************
Precautic	onary Designation Statement: In					
Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)						

Sheet No.		4	
DIRECTING.	 -	_	-

Box	x No. VI PRIOR	RITY CLAIM			
The	priority of the follo	owing earlier application(s) is herel	by claimed:	·	
	Filing date Number of earlier application		v	Where earlier application	ı is:
<u> </u>	(day/month/year)		national application: country	regional application:* regional Office	international application: receiving Office
ļ 	26.04.02	Patent Application 2002-125536	Japan		
iten	n (2)				
iten	m (3)		· · · · · · · · · · · · · · · · · · ·		
iten	n (4)				
iten	m (5)				·
	Further priority cla	aims are indicated in the Suppleme	ental Box.		
9	e receiving Office is ne earlier application we as:	requested to prepare and transmit to was filed with the Office which for t	to the International Bureau the purposes of this interna	s a certified copy of the e	earlier application(s) (only receiving Office) identified
		item (1) item (2)	item (3) item		other, see Supplemental Box
* W Indi	here the earlier appl istrial Property or o	lication is an ARIPO application, in me Member of the World Trade Org	idicate at least one country ganization for which that e	party to the Paris Conve arlier application was fil	
Box	No. VII INTER	NATIONAL SEARCHING AUT	THORITY		
		nl Searching Authority (ISA) (if tw dicate the Authority chosen; the two-		earching Authorities are o	competent to carry out the
	1	of agricer search; reference to the		•••••	•••••
171101	juest to use results ( rnational Searching . e (day/month/year)		_		t by or requested from the
Da.,	(aay/moniniyeai j	Numbe	er Count	try (or regional Office)	
Box	No. VIII DECLA	RATIONS			<u> </u>
The chec	The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable  Number of check-boxes below and indicate in the right column the number of each type of declaration):  declarations				
	Box No. VIII (i)	Declaration as to the identity			:
	Box No. VIII (ii)  Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent				
	Box No. VIII (iii)	Declaration as to the applic date, to claim the priority o	cant's entitlement, as at the	e international filing	:
	Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America):				
	Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty :				

Sheet	B.T.	5	
Sneet	NO.		

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application conti (a) the following number of sheets in paper form:	ains:	nem(s)	ernational application is accompanied by the following (mark the applicable check-boxes below and indicate in lumn the number of each item):		Number of items	
request (including	_	1. 🗹	fee calculation sheet	:	1	
declaration sheets)	5	2. 🔽	original separate power of attorney	:	1	
description (excluding sequence listing part) :	11	3. 🔲	original general power of attorney	•	•	
claims	1	4.	copy of general power of attorney: reference number	•		
abstract	1		if any:	• • • • • • • •	•	
drawings	5	5. 🔲	statement explaining lack of signature	.:		
Sub-total number of sheets:	23	6. 🗆	priority document(s) identified in Box No. VI as item(s):	-	1	
sequence listing part of description (actual number of sheets if filed in paper	•	7. 🗀	translation of international application into (language):		Τ.	
form, whether or not also filed in computer readable form; see (b) below)	0	8. 🗖	separate indications concerning deposited microorgan or other biological material	ism .		
Total number of sheets :	23	9. 🗆	sequence listing in computer readable form (indicate al and number of carriers (diskette, CD-ROM, CD-R or o	lso type		
(b) sequence listing part of descript computer readable form	tion filed in		(i) copy submitted for the purposes of international under Rule 13ter only (and not as part of the	iner )) al search		
(i) only (under Section 80)			international application)  (ii) (iii) (only where check-box (b)(i) or (b)(ii) is market	: ۵ــــــــــــــــــــــــــــــــــــ		
(ii) in addition to being file form (under Section 80	1(a)(ii))		column) additional copies including, where app the copy for the purposes of international searce	nlicable		
Type and number of carriers ( CD-ROM, CD-R or other) on wi sequence listing part is contained	hich the I <i>(additional</i>		Rule 13ter  (iii) together with relevant statement as to the ident	: ity		
copies to be indicated under item right column):	19(ii), in		of the copy or copies with the sequence listing mentioned in left column	part ·		
		10.	other (specify):	·		
Figure of the drawings which	-		ge of filing of the		<del></del>	
should accompany the abstract:	<u> </u>	internati	onal application: Japanese			
Box No. X SIGNATURE OF A Next to each signature, indicate the name of	APPLICANT  of the person sign	Γ, AGEN' ning and the	T OR COMMON REPRESENTATIVE  capacity in which the person signs (if such capacity is not obvious	from reading t	the request).	
Moriya Kazuo						
l lolly a Razuo						
ļ						
L	· · · · · · · · · · · · · · · · · · ·				_	
For receiving Office use only						
Date of actual receipt of the pur international application:	ported			2. Drawi	ings:	
3 Corrected date of actual receipt	dua to later b			rece	ived:	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
4. Date of timely receipt of the required corrections under PCT Article 11(2):				eceived:		
The state of the s	- (4).					
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid						
		For Inter	national Purson use and		لـــــــ	
For International Bureau use only						
Date of receipt of the record copy by the International Bureau:						
J January Darona.					ļ	

This sheet is not part of and does not count as a sheet of the international application.

## FEE CALCULATION SHEET

For receiving Office use only

Annex to the Request	International Application No.
Applicant's or agent's file reference	Date stamp of the receiving Office
Applicant Japan Science and Technology Showa Electric Wire & Cable	Corporation
CALCULATION OF PRESCRIBED FEES	331, 124.
1. TRANSMITTAL FEE	
2. SEARCH FEE International search to be carried out by (If two or more International Searching Authorities are competent to carry of search, indicate the name of the Authority which is chosen to carry out the in-	¥90,000
INTERNATIONAL FEE     Basic Fee	nternational search.)
Where item (b) of Box No. IX applies, enter Sub-total number of Where item (b) of Box No. IX does not apply, enter Total number	sheets 23
b1 first 30 sheets	£ <b>£</b>
number of sheets fee per sheet fee per sheet	
b3 additional component (only if sequence listing part of descrip is filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	otion
400 x =	b3
Add amounts entered at b1, b2 and b3 and enter total at B	¥54,000.~B
Designation Fees  The international application contains3 designations.	
3   x   ¥11,600 =	¥34,800D
number of designation fees amount of designation fee payable (maximum 5)	
Add amounts entered at B and D and enter total at I	· · · · · · · · · · · · · · · · · · ·
(Applicants from certain States are entitled to a reduction of 75 international fee. Where the applicant is (or all applicants are) so entitle to be entered at I is 25% of the sum of the amounts entered at B and L	% of the d, the total .)
4. FEE FOR PRIORITY DOCUMENT (if applicable)	
5. TOTAL FEES PAYABLE	¥178,800
Add amounts entered at T, S, I and P, and enter total in the TOTAL	box TOTAL
The designation fees are not paid at this time.	
MODE OF PAYMENT	
authorization to charge postal money order postal money order	cash coupons
☐ cheque ☐ bank draft ☐	revenue stamps other (specify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACC (This mode of payment may not be available at all receiving Offices)	Receiving Office: RO/
Authorization to charge the total fees indicated above.	Deposit Account No.:
(This check-box may be marked only if the conditions for deposit according	ints Date:
of the receiving Office so permit) Authorization to charge any deficient or credit any overpayment in the total fees indicated above.	Name:
Authorization to charge the fee for priority document.	Signature: